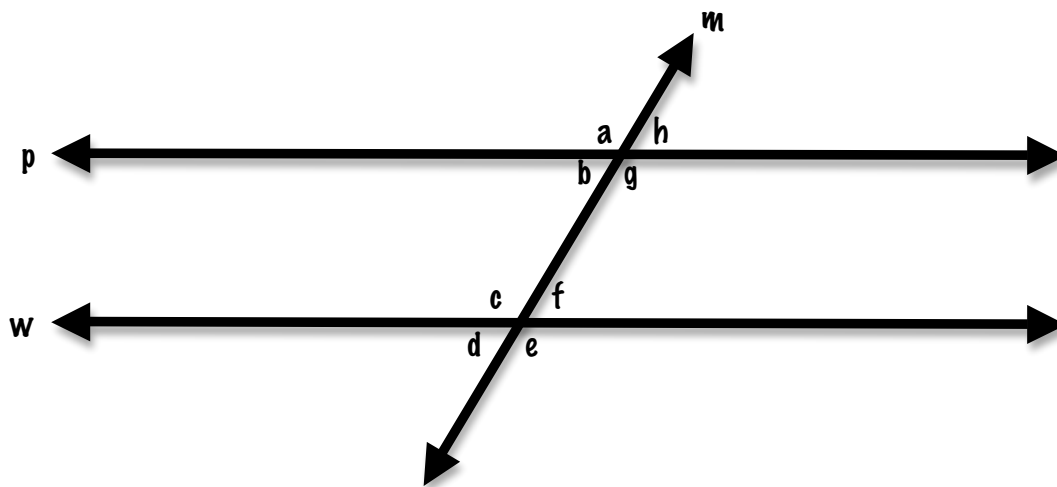


6:4:1 Parallel Lines and Transversals

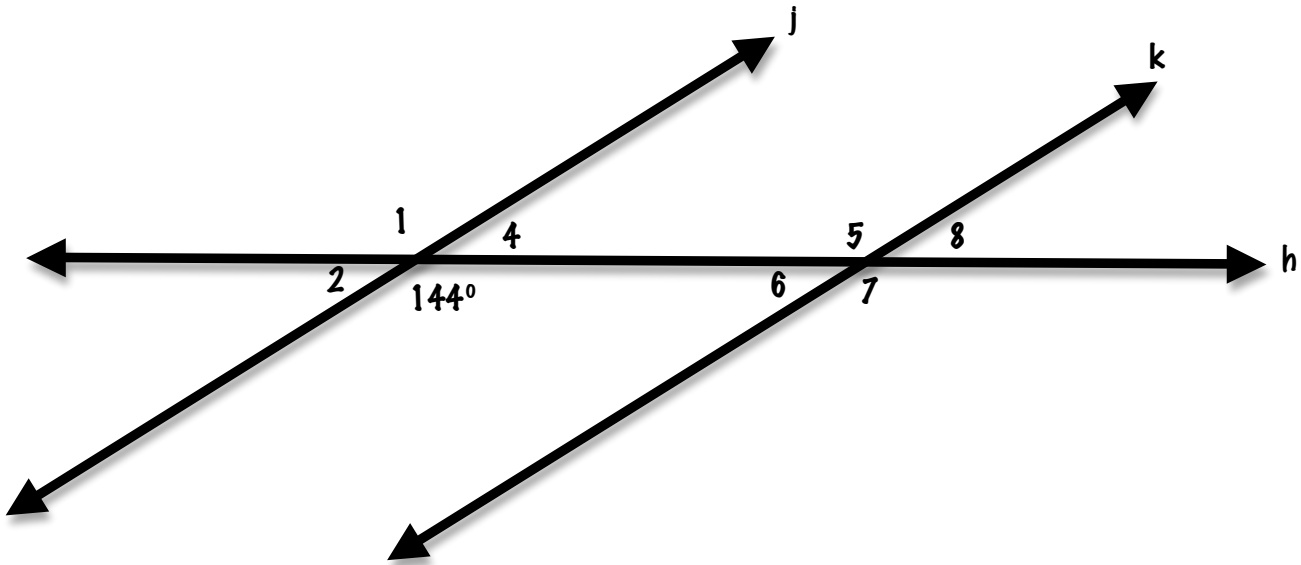
Name _____

Use the diagram below to name the appropriate angle.



- 1) $\angle a$ is vertical to which angle?
- 2) $\angle h$ is corresponding with which angle?
- 3) Name two pairs of alternate interior angles.
- 4) $\angle f$ is vertical to which angle?
- 5) $\angle c$ is corresponding with which angle?
- 6) Which line is the transversal?
- 7) Name the pair of lines that is parallel.
- 8) Name two pairs of alternate exterior angles.

In the diagram below, line j is parallel to line k . Find the measure of each angle.



Find the measure of each angle. State the relationship that explains how you know.

9) $m\angle 1 =$

10) $m\angle 2 =$

11) $m\angle 4 =$

12) $m\angle 5 =$

13) $m\angle 7 =$

14) $m\angle 8 =$

Spiral Review.

Solve the following proportions. SHOW YOUR WORK!!

15) $\frac{x}{100} = \frac{3}{5}$

16) $\frac{9}{x} = \frac{2}{3}$

17) $\frac{1}{2} = \frac{x}{4.5}$

18) $\frac{4}{49} = \frac{2}{x}$